

REMARKS/ARGUMENTS

In response to the Office Action dated October 28, 2003, please consider the following remarks.

In the Office Action issued October 28, 2003, claims 1-14 were rejected under 35 U.S.C. §101 as being directed to a nonfunctional descriptive material. Claims 1-14 were rejected under 35 U.S.C. §101 as not being tangibly embodied. Claims 5-6 were rejected under 35 U.S.C. §112, ¶2 as being indefinite. Claims 1-8 and 13-14 were rejected under 35 U.S.C. §102(a) as being anticipated by a printed publication by Chong et al., "B+-Tree Indexes with Hybrid Row Identifiers in Oracle 8i" (Chong). Claims 1-8 and 13-14 were rejected under 35 U.S.C. §102(b) as being anticipated by Knudsen, U.S. Patent No. 5,682,535A. Claims 9-12 were indicated as being allowable if rewritten to overcome the rejection(s) under 35 U.S.C. §101 and to include all of the limitations of the base claim and any intervening claims.

Claims 1-14 are now pending in this application. Claims 1, 5, 7, 8, and 9 have been amended to more particularly point out the subject matter that the inventor considers to be the invention and to overcome the rejections under 35 U.S.C. §101. Claim 5 has been amended to overcome the rejection under 35 U.S.C. §112, ¶2 and. Claims 2 and 3 have been cancelled.

Claims 1, 5, 7, 8, and 9 have been amended to overcome the rejections under 35 U.S.C. §101. In particular, the claims have been amended to recite that

the subject matter of the claims is tangibly embodied in a memory of a computer system and as such provide functional and structural features in such memory and such computer system. Claim 13 recites a computer program product that comprises computer program instructions that are executable by a processor. This is a tangible embodiment of the recited subject matter and further, this subject matter is functional, as it is used to control the execution of a processor to perform a novel process. Claim 14 recites a system that comprises a processor and a memory operable to store computer program instructions that are executable by the processor. This is a tangible embodiment of the recited subject matter and further, this subject matter is functional, as it is used to control the execution of the processor to perform a novel process.

Claims 9-12 should now be in form for allowance. Claim 9 has been amended to overcome the rejections under 35 U.S.C. §101. Claim 9 is an independent claim including subject matter indicated as being allowable, thus claim 9, and claims 10-12, which depend from claim 9, should now be in form for allowance.

A Petition to Correct Inventorship is being filed concurrently herewith. A copy of the Petition and associated papers are attached at Exhibit A.

The inventorship of the present application has been corrected to remove a person who was erroneously, and without deceptive intent, listed as an inventor. As the corrected inventorship of the present application is identical to the

authorship of the Chong article, the Chong article is not a proper reference under 35 U.S.C. §102(a). Thus, the rejection of claims 1-8 and 13-14 under 35 U.S.C. §102(a) as being anticipated by the Chong article is moot.

The applicant respectfully submits that the present invention, according to claims 1-8 and 13-14 are not anticipated by Knudsen. Knudsen discloses a table data store as the native access method for an object-oriented operating system. Data in this system is stored in a balanced structure where each table is ordered on the primary key within the table. The table data store consists of a table index page 500. The table index page includes a list of table names with pointers to a parameter index page 501 where appropriate. Other entries in the table index page point directly to a primary key index 503. Entries in the parameter index page 501 point to a primary key index 502. The primary key index is a balanced binary tree 507 based on the B+ tree organization ordered on the primary key (where index 502 is the top of the tree). The bottom of the B+ tree points to the actual link to data pages which store occurrences for the table.

By contrast, the present invention, for example, according to claim 1, requires a mapping table comprising a row for each row of the primary B+tree, wherein each row of the mapping table comprises a primary key value from the primary B+tree and the mapping table provides one-to-one mapping between primary keys of the primary B+tree structure and physical row identifiers of the mapping table. Knudsen discloses a primary key index that is a balanced binary

tree based on the B+ tree organization ordered on the primary key. However, Knudsen does not disclose or suggest the claimed mapping table that provides one-to-one mapping between primary keys of the primary B+tree structure and physical row identifiers of the mapping table.

Thus, the present invention, according to claim 1, and according to claim 4, which depends from claim 1, is not anticipated by Knudsen.

The present invention, according to claim 4, is not anticipated by Knudsen for the additional reason that claim 4 requires that each row of the mapping table comprise a guess-DBA, database block address of a leaf block of the primary B+tree, where the corresponding primary B+tree row is likely to be found. Knudsen provides no teaching or suggestion of such a guess-DBA, where a corresponding primary B+tree row is likely to be found.

Thus, the present invention, according to claim 4, is not anticipated by Knudsen.

The present invention, for example, according to claim 5, requires a primary B+tree in a memory of a computer system, comprising mapping table row identifiers, each mapping table row identifier stored in a row of the primary B+tree, the mapping table row identifiers comprising a physical row identifier of a corresponding mapping table row. Knudsen provides no teaching or suggestion of such a primary B+tree.

Thus, the present invention, according to claim 5, and according to claim 6, which depends from claim 5, is not anticipated by Knudsen.

The present invention, according to claim 6, is not anticipated by Knudsen for the additional reason that claim 6 requires that the mapping table row identifiers are stored at a fixed offset from a beginning of each row of the primary B+tree. Knudsen provides no teaching or suggestion of such mapping table row identifiers.

Thus, the present invention, according to claim 6, is not anticipated by Knudsen.

The present invention, for example, according to claim 7, requires an auxiliary structure for a primary B+tree in a memory of a computer system, the auxiliary structure comprising row identifiers of corresponding mapping table rows, the row identifiers referring to a primary B+tree row. Knudsen provides no teaching or suggestion of such an auxiliary structure.

Thus, the present invention, according to claim 7, is not anticipated by Knudsen.

The present invention, for example, according to claim 8, requires a method for loading/populating a primary B+tree in a memory of a computer system having an associated mapping table, the method comprising generating a row of the mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree, the

row identifier comprising a primary key column value for each row of the primary B+tree and a guess-DBA. Knudsen does not disclose or suggest such a method and further does not disclose or suggest the required mapping table and the guess-DBA.

Thus, the present invention, according to claim 8, is not anticipated by Knudsen.

The present invention, for example, according to claim 13, requires a computer program product for performing a process for indexing a primary B+tree, the computer program product comprising a computer readable medium; and computer program instructions, recorded on the computer readable medium, executable by a processor, for performing the steps of generating a row of a mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree, the identifier comprising a primary key column value and a guess-database address for each row of the primary B+tree. Knudsen does not disclose or suggest such a computer program product and further does not disclose or suggest the required mapping table and the guess-database address.

Thus, the present invention, according to claim 13, is not anticipated by Knudsen.

The present invention, for example, according to claim 14, requires a system for performing a process for indexing a primary B+tree, the system

comprising a processor operable to execute computer program instructions and a memory operable to store computer program instructions executable by the processor, for performing the steps of generating a row of a mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree, the identifier comprising a primary key column value and a guess-database address for each row of the primary B+tree.

Thus, the present invention, according to claim 14, is not anticipated by Knudsen.

Each of the claims now pending in this application is believed to be in condition for allowance. Accordingly, favorable reconsideration of this case and early issuance of the Notice of Allowance are respectfully requested.

Additional Fees:

The Commissioner is hereby authorized to charge any insufficient fees or credit any overpayment associated with this application to Deposit Account No. 19-5127 (19111.0038).

Conclusion

In view of the foregoing, all of the Examiner's rejections to the claims are believed to be overcome. The Applicants respectfully request reconsideration and issuance of a Notice of Allowance for all the claims remaining in the application. Should the Examiner feel further communication would facilitate prosecution, he is urged to call the undersigned at the phone number provided below.

Respectfully Submitted,



Michael A. Schwartz
Reg. No. 40,161

Dated: January 28, 2004

Swidler Berlin Shereff Friedman, LLP
3000 K Street, N.W., Suite 300
Washington, D.C. 20007
(202) 424-7500

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number 09/867,678

Filing Date May 31, 2001

First Named Inventor Eugene I. Chong

Art Unit 2177

Examiner Name K. Pham

Total Number of Pages in This Submission

15

Attorney Docket Number

19111.0038

Technology Center 2100

ENCLOSURES (check all that apply)☒ Fee Transmittal Form☐ Fee Attached☐ Amendment / Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☐ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Response to Missing Parts/
Incomplete Application☐ Response to Missing
Parts under 37 CFR
1.52 or 1.53☐ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a
Provisional Application☐ Power of Attorney, Revocation
Change of Correspondence Address☐ Terminal Disclaimer☐ Request for Refund☐ CD, Number of CD(s) _____☐ After Allowance Communication to
Group☐ Appeal Communication to Board of
Appeals and Interferences☐ Appeal Communication to Group
(Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☒ Other Enclosure(s)
(please identify below):**A Petition to Correct
Inventorship and associated
papers (15 pages)**

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENTFirm
or
Individual name

Michael A. Schwartz, Reg. No. 40,161

Signature

Michael A. Schwartz

Date

January 28, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name

Signature

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 130

Complete if Known

Application Number 09/867,678

Filing Date May 31, 2001

First Named Inventor Eugene I. Chong

Examiner Name K. Pham

Art Unit 2177

Attorney Docket No. 19111.0038

RECEIVED

FEB 03 2004

Technology Center 2100

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None
Order

☒ Deposit Account:

Deposit
Account
Number

19-5127

Deposit
Account
Name

Swidler Berlin Shereff Friedman, LLP

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)

(\$ 0)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims		Fee from below		Fee Paid	
Total Claims	<input type="text"/>	-20 **	=	<input type="text" value="0"/>	X	<input type="text"/>	=	<input type="text" value="0"/>
Independent Claims	<input type="text"/>	-3 **	=	<input type="text" value="0"/>	X	<input type="text"/>	=	<input type="text" value="0"/>
Multiple Dependent					X	<input type="text"/>	=	<input type="text" value="0"/>

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0)

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	130
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) _____

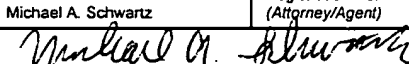
*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 130)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Michael A. Schwartz	Registration No. (Attorney/Agent)	40,161	Telephone	202/424-7500
Signature				Date	January 28, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Application of:

Eugene I. CHONG

Application. No.: 09/867,678

Filed: May 31, 2001

Title: MAPPING LOGICAL ROW IDENTIFIERS FOR PRIMARY B+TREE-LIKE
STRUCTURES TO PHYSICAL ROW IDENTIFIERS

Confirmation No. 7207

Art Unit: 2177

PETITION TO CORRECT INVENTORSHIP

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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FEB 03 2004

Technology Center 2100

Sir:

Applicant submits herewith the following documents for appropriate action by the U.S.
Patent and Trademark Office to request correction of inventorship in the above-listed matter:

1. Consent of Assignee to Correction of Inventorship;
2. Statement Regarding Inventorship;
3. Power of Attorney and Revocation of Previous Powers; and
4. Declaration for Patent Application.

The Commissioner is hereby authorized to charge \$130 and any additional fees due or credit any
overpayment to Deposit Account No. 19-5127.

Date: January 28, 2004

Respectfully submitted,

Michael A. Schwartz, Reg. No. 40,161
Swidler Berlin Shereff Friedman, LLP
3000 K Street, NW, Suite 300
Washington, DC 20007
Telephone: (202) 424-7500

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/867,678
Applicant : Eugene I. CHONG
Filed : May 31, 2001
Title : MAPPING LOGICAL ROW IDENTIFIERS FOR
PRIMARY B+TREE-LIKE STRUCTURES TO
PHYSICAL ROW IDENTIFIERS
TC/A.U. : 2177
Examiner : Pham, K.
Docket No. : 19111.0038

CONSENT OF ASSIGNEE TO CORRECTION OF INVENTORSHIP

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Technology Center 2100

Dear Sir,

ORACLE INTERNATIONAL CORPORATION, the assignee of the entire interest of the captioned application, hereby consents to correction of the inventorship of the above application by the deletion of Richard Jiang as an inventor.

Respectfully submitted,

Assignee of Interest:

Oracle International Corporation

Dated: 1/22/2004

By: 

Name: Roger Kennedy

Title: Patent Counsel

Address of Assignee of Interest:

Oracle International Corporation
500 Oracle Parkway - M/S 50P7
Redwood Shores, CA 94065

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/867,678
Applicant : Eugene I. CHONG
Filed : May 31, 2001
Title : MAPPING LOGICAL ROW IDENTIFIERS FOR
PRIMARY B+TREE-LIKE STRUCTURES TO
PHYSICAL ROW IDENTIFIERS
TC/A.U. : 2177
Examiner : Pham, K.
Docket No. : 19111.0038

STATEMENT REGARDING INVENTORSHIP

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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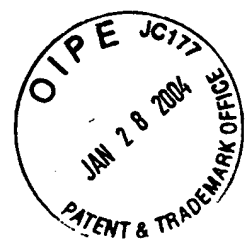
Technology Center 2100

Dear Sir,

I, Richard Jiang, hereby declare as follows:

Through no deceptive intention on my part, an error in inventorship occurred in the above-referenced application when I was incorrectly listed as an inventor.

The undersigned inventor declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by



fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 1/21/2004

Richard Jiang

Richard Jiang

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Eugene I. Chong, et al.

Group Art Unit No.:

2177

Examiner:

K. Pham

Serial No.: 09/867,678

Filed on: May 31, 2001

For: MAPPING LOGICAL ROW IDENTIFIERS FOR PRIMARY B+TREE-LIKE
STRUCTURES TO PHYSICAL ROW IDENTIFIERS

POWER OF ATTORNEY
AND REVOCATION OF PREVIOUS POWERS

Commissioner for Patents
Washington, D.C. 20231

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FEB 03 2004

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Sir:

Oracle International Corporation, a California corporation having a place of business at 500 Oracle Parkway, M/S 50P7, Redwood Shores, California 94065, certifies that to the best of its knowledge and belief it is the assignee or is entitled to ownership of the entire right, title, and interest in and to the above-referenced patent application by virtue of an Assignment filed concurrently herewith and represents that the undersigned is a representative authorized and empowered to sign on behalf of Oracle Corporation, which hereby revokes all powers of attorney previously given and appoints the following attorney(s) and/or agent(s): Customer No. 23517, Edward A. Pennington (Reg. No. 32,588), John P. Moran (Reg. No. 30,906), Eric J. Franklin (Reg. No. 37,134), Michael A. Schwartz (Reg. No. 40,161), Robert C. Bertin (Reg. No. 41,488), Alicia A. Meros (Reg. No. 44,937), Chadwick A. Jackson (Reg. No. 46,495), Sean O'Hanlon (Reg. No. 47,252), John P. Mulgrew, II (Reg. No. 47,809), and James H. Laughlin (Reg. No. 22,947), all of

Customer No. 23517
Swidler Berlin Shereff Friedman, LLP
3000 K Street, N.W.
Suite 300
Washington, D.C. 20007

and

Sanjay Prasad, Reg. No. 36,247, Roger Kennedy, Reg. No. 44,823, and Pavel Pogodin, Reg. No. 48,205 of ORACLE INTERNATIONAL CORPORATION

Attorney Docket No. 19111.0038

with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Send all future correspondence to the Attention of **Edward A. Pennington**, Reg. No. 32,588, care of the above address and direct all telephone calls to the same at 202-424-7500

Assignee of Interest:

Oracle International Corporation

Dated: 1/22/2004

By: 

Name: Roger Kennedy

Title: Patent Counsel

Address of Assignee of Interest:

Oracle International Corporation

500 Oracle Parkway - M/S 50P7

Redwood Shores, CA 94065

DECLARATION FOR PATENT APPLICATION

As a below named inventor(s), I hereby declare that:

My residence, mailing address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**"MAPPING LOGICAL ROW IDENTIFIERS FOR PRIMARY B+TREE-LIKE STRUCTURES
TO PHYSICAL ROW IDENTIFIERS"**

the specification of which

is attached hereto.

X

was filed on May 31, 2001 as

United States Application Number 09/867,678,

or PCT International Application Number _____

and was amended on _____
(if applicable)

RECEIVED

FEB 03 2004

Technology Center 2100

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 (copy attached).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), on any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority
Claimed

(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below

(Application Number)	(Filing Date)
(Application Number)	(Filing Date)



I hereby claim benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 (copy attached) which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor (given name, family name) Eugene I. Chong

Inventor's Signature Eugene I. Chong Date 1/21/2004

Residence Concord, Massachusetts 01742 Citizenship US
(City, State) (Country)

Mailing Address: 9 Dunbar Way, Concord, Massachusetts 01742

Full Name of Second Inventor (given name, family name) Jagannathan Srinivasan

Inventor's Signature _____ Date _____

Residence Nashua, New Hampshire Citizenship India
(City, State) (Country)

Mailing Address: 1 Hampshire Drive, Apartment F, Nashua, New Hampshire 03063

I hereby claim benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 (copy attached) which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)
_____ (Application Number)	_____ (Filing Date)	_____ (Status - patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole/First Inventor (given name, family name) Eugene I. Chong

Inventor's Signature _____ Date _____

Residence Concord, Massachusetts 01742 Citizenship US
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